

DERWENT-ACC-NO: 2000-341260  
DERWENT-WEEK: 200030  
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TITLE: Wind power system has transducer mounted in rotor  
blade and/or rotor  
blades are individually adjustable depending on measurement  
parameter  
representing component acceleration or deformation

INVENTOR: WEITKAMP, R

PATENT-ASSIGNEE: TACKE WINDENERGIE GMBH [TACKN]

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK N  
L PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
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INT-CL\_(IPC): F03D007/02  
ABSTRACTED-PUB-NO: EP 995904A

BASIC-ABSTRACT:

NOVELTY - The system has a rotor with at least two blades (B) with adjustable angles of attack and a transducer ( KB,KR,KT) which provides a measurement parameter giving a measure of the current load on an element of the system's structure. The blade angle is adjusted depending on the measurement parameter, which represents an acceleration or deformation of the

structural element and  
gives a measure of a force or torque. The transducer is  
mounted in a rotor  
blade and/or the rotor blades are individually adjustable.

USE - Wind power system.

ADVANTAGE - A system for reducing the load fluctuations  
occurring during  
operation is developed which is sensitive on the one hand and  
selective for  
local gusts of wind on the other hand..

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic  
perspective exploded  
representation of a wind power system with transducers on  
different assemblies

rotor blades B

torque sensors KB, KR, KT

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CHOSEN-DRAWING: Dwg.1/5

DERWENT-CLASS: Q55 X15

EPI-CODES: X15-B;